

METHOD AND APPARATUS FOR EXTRACTING  
AND SEQUESTERING CARBON DIOXIDE

ABSTRACT OF THE DISCLOSURE

A method and apparatus to extract and sequester carbon dioxide ( $\text{CO}_2$ ) from a stream or volume of gas wherein said method and apparatus hydrates  $\text{CO}_2$ , and reacts the resulting carbonic acid with carbonate. Suitable carbonates include, but are not limited to, carbonates of alkali metals and alkaline earth metals, preferably carbonates of calcium and magnesium. Waste products are metal cations and bicarbonate in solution or dehydrated metal salts, which when disposed of in a large body of water provide an effective way of sequestering  $\text{CO}_2$  from a gaseous environment.